Scout Report sent out	
Noted in the NID File	DH
Location map pinned	
Approval or Disapproval Letter	
Date Completed P. & A. or eperations suspended	6
Pin changed en location map	П
Affidavit and Record of A & P	
Water Shut-Off Test	
Gas-Oil Ratie Test	
Well Leg Filed	

FILE NOTATIONS	ecvork Comp. 3-10-56-4
Entared in NID File	Checked by Chief
Location Map Pinned	Copy NID to Field Office
Card Indexed	Approval Letter
WR for State or Fee Land	Disapproval Latter
COMPLETION DATA	
Dato Wall Completed 8-23-	48 Location Inspected
ow VV TA	Bond released State of Fee Land
	LOGS FILED
Electric Logs (No. ) 2	

Budget Bureau No. 42-R358. Approval expires 11-39-45.

Form 9-331 a (March 1942)

(SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

5-19-48

Land	Office	Salt Jake Sity
	<b>N</b> 7 .	OCAROL

Unit Elles V. Crittenies

SCHOLOGICAL SURVEY
OIL & GAS DIV.
MAY 17 1948

SUNDRY NOTICES AND REPORTS ON

The second secon	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO DRIEL	SUBSEQUENT REPORT OF WATER SHOT-OTT
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

			<b>337</b> 12,	, 19 <b>.48</b>
Well No. 1 is lo	catedft.	from $S$ line an	d <b>660</b> ft. from E	line of sec. 12
SR of SR - 12 (¼ Sec. and Sec. No.)	17 8	25 E		
(14 Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Bar X	Gran	<u>a</u>	Uta	<b>A</b>
(Field)	(Cot	inty or Subdivision)	(State	or Territory)

The elevation of the derrick floor above sea level is Reportfulater

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, comenting points, and all other important proposed work)

Plan to set/20' of 20" condustor pipe, drill with retary tools, set 15-8/8" casing at 500' and circulate cement. Drill 9" hole and test all sands to base of Morrison Formation at approximately 4250'. 9-5/8" casing will be remarked commented if required, and 7" casing will be set and commented if predmetion is found in Morrison Sands. Estimate sand tops - Frontier at 2850', Daksta at 3200', Morrison at 3400' to 3950'.

(SEE ATTACHED RIDER FOR APPROVAL)

I understand th	at this plan of work must receive approval in writing by th	e Geological Survey before operations may be commenced.
Company	Stanolist Oil and Gas Co.	
Address	Lord, Colorado	$\alpha \circ \rho$
		By JM Roy Title Fild Sugarte 124
		Title Vila Sugarda tot

B. S. SOVERNMENT PRINTING OFFICE 18-8437-

Form 9-331 a (March 1942)

(SUBMIT IN TRIPLICATE)

#### **UNITED STATES**

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.

Land Office Salt Lake City

064806 Lease No.

	UNITED STATES	Bllen V. Critter	 140
	DEPARTMENT OF THE INT	TERIOR Unit	
12	GEOLOGICAL SURVEY	OIL & GAS DIV.	
o :	1 - 1 - 48	JUN > 1 1948	
SUNDRY	Y NOTICES AND REPOR	RTS ON WELLS	
NOTICE OF INTENTION TO DRILL NOTICE OF INTENTION TO CHANG NOTICE OF INTENTION TO TEST V NOTICE OF INTENTION TO RE-DR NOTICE OF INTENTION TO SHOOT NOTICE OF INTENTION TO PULL O	SUBSEQUENT REP WATER SHUT-OFF SUBSEQUENT REP ILL OR REPAIR WELL SUBSEQUENT REF I OR ACIDIZE SUBSEQUENT REF OR ALTER CASING SUPPLEMENTARY NOTICE OF	PORT OF WATER SHUT-OFF	
(IND	OICATE ABOVE BY CHECK MARK NATURE OF REPORT, NO	June 17,	3
1	aga All	440 · (F) ·	
SE 1 SE 1 Sec. 12	T 17 S R 25 K	ft. from line of sec. 18	
SK <sup>1</sup> SE <sup>1</sup> Sec. 12  (M. Sec. and Sec. No.)  Bar X	T 17 S R 25 K  (Twp.) (Range)  Crand	(Meridian) <b>Utah</b>	
SK <sup>1</sup> SE <sup>1</sup> Sec. 12  (M. Sec. and Sec. No.)  Bar X  (Field)	T 17 S R 25 K	(Meridian)	
SK <sup>1</sup> SE <sup>1</sup> Sec. 12  (M. Sec. and Sec. No.)  Bar X  (Field)	T 17 S R 25 K  (Twp.) (Range)  Crand  (County or Subdivision)	(Meridian)  Utah  (State or Territory)	
SR <sup>1</sup> SE <sup>1</sup> Sec. 12  (4 Sec. and Sec. No.)  Bar X  (Field)  The elevation of the derr	T 17 S R 25 K  (Twp.) (Range)  Grand  (County or Subdivision)  rick floor above sea level is 5210*  DETAILS OF WORK	(Meridian)  Utah  (State or Territory)  *Altimeter reading	ent-
(W. Sec. and Sec. No.,  BAR X  (Field)  The elevation of the derr  State names of and expected dept.	T 17 S R 25 K  (Twp.) (Range)  Grand  (County or Subdivision)  rick floor above sea level is 5210* ft.	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, cemes and work)	•nt-
(4 Sec. 12  (4 Sec. and Sec. No.)  Bar X  (Field)  The elevation of the derr  State names of and expected dept.  440° of 13-3/8° Of	T 17 S R 25 K  (Twp.) (Range)  Grand  (County or Subdivision)  rick floor above sea level is 5210*  ft.  DETAILS OF WORK  has to objective aands; show sizes, weights, and length ing points, and all other important propose  DP Youngstown Plain End Slip J.  H-40 R-2 T&C Casing. Casing	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, cemes and work)  oint Spiral Weld Casing and was landed at 496 feet and	ent-
SE <sup>1</sup> SE <sup>1</sup> Sec. 12  (W. Sec. and Sec. No.)  Bar X  (Field)  The elevation of the derr  State names of and expected dept.  1 440° of 13-3/8" OD Gr.  mented with 402 sac	T 17 S R 25 K  (Twp.) (Range)  Grand  (County or Subdivision)  Tick floor above sea level is 5210*  Tick floor above sea level is 5210*  DETAILS OF WORK  The to objective sands; show sizes, weights, and length ing points, and all other important proposes  DP Youngstown Plain End Slip J  H-40 R-2 T&C Casing. Casing  oks of Ideal Portland Cament to	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, cemes and work)  oint Spiral Weld Casing and was landed at 496 feet and a surface. Let eament set	
(Wise, and Sec. No.,  Bar X  (Field)  The elevation of the derr  State names of and expected dept  440° of 13-3/8" OD Gr.  mented with 402 sac  hours and went in  ound plug at 475°.	Grand  (County or Subdivision)  Teck floor above sea level is 5210*  Teck floor above sea level is 5210*  DETAILS OF WORK  The to objective sands; show sizes, weights, and length ing points, and all other important proposed by Youngstown Plain End Slip J. H-40 R-2 T&C Casing. Casing oks of Ideal Portland Cement to hole with 7 drill collars and Circulated and tested casing	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, come and work)  oint Spiral Weld Casing and was landed at 496 foot and surface. Let coment set and 8 joints of 45° drill pipe with 700° of pressure for	
(W Sec. and Sec. No.,  Bar X  (Field)  The elevation of the derr  State names of and expected dept  440° of 13-3/8° OD Gr.  mented with 402 sac  hours and went in  ound plug at 475°.	T17 S R 25 K  (Twp.) (Range)  Grand  (County or Subdivision)  Tick floor above sea level is 5210*  Tick floor above sea level is 5210*  DETAILS OF WORK  The to objective sands; show sizes, weights, and length ing points, and all other important proposition. The stand Slip J  H-40 R-2 T&C Casing. Casing cks of Ideal Portland Cament to hole with 7 drill collars and	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, come and work)  oint Spiral Weld Casing and was landed at 496 foot and surface. Let coment set and 8 joints of 45° drill pipe with 700° of pressure for	
(Wise, and Sec. No.,  Bar X  (Field)  The elevation of the derr  State names of and expected dept  440° of 13-3/8" OD Gr.  mented with 402 sac  hours and went in  ound plug at 475°.	Grand  (County or Subdivision)  Teck floor above sea level is 5210*  Teck floor above sea level is 5210*  DETAILS OF WORK  The to objective sands; show sizes, weights, and length ing points, and all other important proposed by Youngstown Plain End Slip J. H-40 R-2 T&C Casing. Casing oks of Ideal Portland Cement to hole with 7 drill collars and Circulated and tested casing	(Meridian)  Utah  (State or Territory)  *Altimeter reading  as of proposed casings; indicate mudding jobs, come and work)  oint Spiral Weld Casing and was landed at 496 foot and surface. Let coment set and 8 joints of 45° drill pipe with 700° of pressure for	

ompany.	Stanolind 041 and Ges Company	
ddress	Loyd, Colorado	
	1048	By Fin The A

U. S. GOVERNMENT PRINTING OFFICE 16-8487-8

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U. S. LAND OFFICE Salt Lake City Serial Number 064806 LEASE OR PERMIT TO PROSPECT

## UNITED STATES

## DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

4-3-44

LOCATEC			OG OF		K GAS	VV ELLI	•
LOCATE WELL		.Y 11 and Gas Cor		<b>.</b>	3 O.S. 5		
Company 30		e de la companya de	areny	(H Chis	d, Colorado		
Lessor or Teach		Crittenden	Fie	Bar-X-	-Anticline	ate Utah	
Weil No.	Sec.	25 T. 17S R 25	SE Meridian		County	Grand	
Location 660	t. XX of S	Line and 660	$\mathcal{O}_{ft} = \left\{ egin{array}{c} \mathbf{E} \\ \mathbf{W} \end{array} \right\} \ of  \mathbf{E} = \mathbf{E} $	Line of Se	Pc. 12	Elevatio	n 5008
The inform	ndion given	berewith is a co	inplete and cor	rect record of	the well and	all work de	one thereon
30 Inr as can be	' det mined	from all availab		ned	611		
Daie Augus	st 29, 194	.8		Tit	le Field	Sunt	
The summ:	ary on this i	our is for the m	ndition of the s				
Commenced dri	illing J	nage is for it	19 48 Re	leased to	The Frontie	r Refinin	g Compan
		OII OF	CAS SANDS			A.M.	, 19
			Dente gas h		•		
So. t from	2810	2960	) (G) N	o. 4, from 🧗	3605	. to 37	'16 (G)
Second from	2960	<sub>!o</sub> 3218	5 (G) No	o. 5, from		to .	
So. 2. from	* 3533	; <sub>10</sub> <b>36</b> 05	(10)	o. G, from		to	
		IMPO	RTANE WAT				*****
No. 4, from	3716	<sub>to</sub> 3832	Barrier Ne	o. 3, from		to	
No. 2, Irona	3958	to <b>401</b> 2	$N^{c}$	o. 4. from		to	
			CASING REC	CORD			
Size Weight	Threads per	Make Am	eum King of sh	.ec Cut and pull	Pe	rforated	
essine) per het. O <b>m fort – widt</b> is	inch			_	From-		Purpose
7040) <del>401</del>	• • • • • • • • • • • • • • • • • • •	ATINO 48	9. The Beker	ရေးကျန်း ကိုရန်သည် (၁၈၈) ရှင် သေးရှိတွေ မွေးဆေးသည် သည်။ ၁၈၈၈ ကို		wire: position	and number
21 12 1000	ve en med ,	ndr dan salah <b>sebil</b> ah	The state of the	half the said	A Palithe	- hes of redril	ling, togethe
		<b>州港</b> 北のお	a or on o	s tire and	E de la de la company de l La company de la company d	- ::::::::::::::::::::::::::::::::::::	า และเกาะ 
		1				-	
•		MUDDING	AND CEMEN	ITING RECO	)RD		
Size Where's	et Nam	ber sacks of cement	Method use				
-3/8" 497	7 1	400	Hallibur		avity	Amount of mu	1 used
2/0 201		***************************************	MOTITORL	10°2		none	
	No torial	PLU	JGS AND AD	APTERS			

	ditenticed K	splower used	, wanti	Date	Depth shot	Depth cleaned out
		, , ,	ONE			
	1		TOOLS US	ED		
Rotary tools	were used from 0	• fee	t to 4497'	feet,	and from	feet to fee
Cable tools w	vere used from	fee	t to	feet,	and from	feet tofee
			DATES	na cad	to The Pronts	an Badinina Camana
			74	46 3704	Gerg 12: Noon	er Refining Company August 3, 1948
The proc	luction for the first	24 hours was	ba	rrels of	fluid of which	% was oil; %
	- % water; and				Gravity, °Bé.	
				ons gasol	ine <b>per</b> 1,000 cu.	ft. of gas
Rock pre	ssure, lbs. per sq. i	n	i			
W. A.	Turner	, Driller	EMPLOYE	ES	Glenn W.	Chivers , Driller
	Teckson	, Driller				, Driller
	:	•	MATION R	FCORD		·
FROM-	то-	TOTAL FEE	r		FORMATIC	DN
2810	2960	150	Dakot	a SS		
2960	3215	255	Lakot	a SS		
3215	3330	115	First	Morri	son SS	
<b>33</b> 30	3535	203	j		ison SS	
<b>35</b> 33	3605	72	Selt			
3605	3832	227		da SS		
3832	4497	665	Nevej			
4497	Well Releas	ed to The Fr	rontier Re	fining	Company, 410	Boston Building,
			The state of the s			
<b>&amp; BY/\</b> \\ '						

Section 19 12 19 19 (OVER)

16-43094-1

FORM 815 10-43

# STANOLIND OIL AND GAS COMPANY



1HOUR-

-- / HOUR --

DRILL STEM TEST REPORT LEASE: E. V. CRITTENDEN BAR X ANTICLINE COUNTY: GRAND STATE: UTAH DATE AND TIME OF TEST: 7-23-48 5:15 AM. NAME OF SECTION TESTED: NAVASO SANDSTONE TESTED FROM 4046 DETERMINE VALUE OF SANDSTONE PERSONY HALLIBURTON OIL WELL CEMENTING Co. PE PACKER AND WHERE SET WALL TYPE @ 4046 4044 BASE OF SAND OR PAY: 4087 WATER CUSHION, IF USED: NONE FEET. LENGTH OF TIME TOOL OPENED: 1756 R LENGTH OF TIME TOOL CLOSED FOR FORMATION PRESSURE: 14 HOUR. SIZE OF TUBING OR DRILL PIPE: 4/2 API CHOKE SIZE, BOTTOM: NONE RESULTS OIL, FLOWING RATE\_ OR HEIGHT RECOVERED\_\_\_\_ WATER FSTIMETED 100,000 QUIFT, GAS OIL RATIO: OTHER RESULTS:\_ SURFACE PRESSURES: NOTTOM HOLE PRESSURES: BEGINNING OF TEST, TOOL OPEN \_\_\_\_\_\_ END OF TEST, TOOL OPEN \_\_\_\_\_\_ SHUT-IN FORMATION \_\_\_\_\_\_ PRESSURE BALANCE (NOT APPLICABLE IF WELL FLOWS ON TEST): CALCULATED PRESSURE OF \_\_FLUID COLUMN IN DRILL STEM BOMB PRESSURE, TOOL OFEN\_ MUD COLUMN PRESSURE ON BOMB 2100 DID PACKER HOLD? YE'S IS TEST CONCLUSIVE?\_\_\_\_ (OMIT UNLESS OTHER PERTINENT INFORMATION AVAILABLE) BOTTOM HOLE PRESSURE CARD SCALE I" P.S.1. 0-100 500 PREPARED BY 1500

FORM 815 10-43

# STANOLIND OIL AND GAS COMPANY



DRILL STEM TEST REPORT LEASE: E. V. CRITTENDEN WELL NO ... TEST NO. 13 FIELD: BAR X ANTICHINE COUNTY: GRAND STATE: UTAH DATE AND TIME OF TEST: 7-21-48 @ 8:10 PM NAME OF SECTION TESTED: WINGATE \_\_\_\_\_\_TESTED FROM 40 // DETERMINE VALUE OF SANDSTONE PROSITY HALLIBURTON OIL WELL GEMENTING CO PE PACKER AND WHERE SET 4011 4011' BASE OF SAND OR PAY: 4038 NONE FEET. LENGTH OF TIME TOOL OPENED: LENGTH OF TIME TOOL CLOSED FOR FORMATION PRESSURE: 15 MIN. 4/2 AP/ CHOKE SIZE, BOTTOM:\_ RESULTS OIL, FLOWING RATE\_ OR HEIGHT RECOVERED NONE FEET WATER NONE 10' KAT HOLE MUD MUD GAS OIL RATIO:\_\_\_ OTHER RESULTS: BOTTOM HOLE PRESSURES: BEGINNING OF TEST, TOOL OPEN O END OF TEST, TOOL OPEN SHUT-IN FORMATION PRESSURE BALANCE (NOT APPLICABLE IF WELL FLOWS ON TEST): 2100 # \_CALCULATED\_ 2080 MUD COLUMN PRESSURE ON BOMB\_\_\_ DID PACKER HOLD? 1 5 DID BOTTOM CHOKE PLUG? No NUMBER OF TIMES TOOL OPENED No DID FLUID DROP IN ANNULUS? (OMIT UNLESS OTHER PERTINENT INFORMATION AVAILABLE) BOTTOM HOLE PRESSURE CARD SCALE 1" 0-10 P.S.L 504 PREPARED BY & Fales Man Loco. 2500

e---- House----

1 HOUR

FORM 815 10-43

# STANOLIND OIL AND GAS COMPANY DRILL STEM TEST REPORT



LEASE: E. V. CRITTENDE.	N	WELL NO.	:/	Т	EST NO. 12	
FIELD: BARX ANTICLINE	COUNTY:_	GRAN	0	s	TATE: UTA	<i>H</i>
DATE AND TIME OF TEST: 7-21-48						
NAME OF SECTION TESTED: WINGATE	(ج)	TESTED FF	ROM_ 400	9'	то	38'
REASON FOR TEST: <u>DETERMINE</u>	VALUE	e Of S	PANOS1	ONE	POROSIT	Υ
COMPANY MAKING TEST: HALLIBUA				INTING	Co.	
TYPE PACKER AND WHERE SET: WALL	*					
TOP OF SAND OR PAY: 4011						
WATER CUSHION, IF USED: NONE	EET. LENGTH	OF TIME TOOL	OPENED:	45 M	·N:	
LENGTH OF TIME TOOL CLOSED FOR FORMATION						
SIZE OF TUBING OR DRILL PIPE: 4/2" H	<i>0 /</i> сно	KE SIZE. BOTT	ом:	<i>(</i>	TOP:	
RESULTS OIL, FLOWING RATE			OR HEIGHT R	ECOVERED	NONE	FEET
WATER " "					NONE	
MUD " "	·			, " <u> </u>	NONE	
GAS: NONE		(	GAS OIL RATIO	D:		
OTHER RESULTS: TEST TOOL	PLUGGE	0 w/s	BAND	No Sm	107 /n F	RESSURE
READING ON CHART CA						,
SURFACE PRESSURES:						
BOTTOM HOLE PRESSURES: BEGINNING OF TEST.	TOO! OPEN	END OF	TEST TOOL O	PEN	SHUT IN FOR	VATION
PRESSURE BALANCE (NOT APPLICABLE IF WELL			1231. 1002 01	- CIV	_ 3//3//// POR	MATION
BOMB PRESSURE TOOL OPEN	CAL	CULATED PRES	SURE OF	0#	DIFFERENCE	
MUD COLUMN PRESSURE ON BOMB 2/00	T.	TED 207		D WEIGHT_		
		•	معمد سدارات			LBS./GAL.
1/2	DID PACKI			о воттом сн <i>N с</i>	OKE PLUG?	<i>' &amp; G</i>
DID FLUID DROP IN ANNULUS? //V®		IS TEST C	ONCLUSIVE?_	790	<u>.</u>	
REMARKS:	R PERTINENT INFO	RMATION AVAILA	BLE)	<u></u>		
				· · · · · · · · · · · · · · · · · · ·		·
	ВОТТ	TOM HOLE PRE	SSURE CARD		SCALE 1"	P. <b>\$</b> .i.
,						
PREPARED BY						

OIL & GAS DIV.

JUL 3 0 1948

REJUIVED

-/ Hour

SIANOL	DRILL STEM TEST	REPORT	ALT LAKE C	TY, UI
EASE: E. V. CRITTENDEN	WELL	NO.:	TEST NO	
ELD BAR X ANTIGLINE	COUNTY: GR	AND	STATE: UTAH.	
ATE AND TIME OF TEST: 7-20-48	5:58 AM			
AME OF SECTION TESTED: WINGATE	(P) TESTE	ED FROM 3972	TO 4012	
EASON FOR TEST: DETERMINE				
ONPANY MAKING TEST: HALLIBURT	ON OIL WE	LL CEMENTIN	G Co.	
YPE PACKER AND WHERE SET: WALL	_			
DP OF SAND OR PAY: 3977 BAS		•		
ATER CUSHION, IF USED: NO NE FEE				
ENGTH OF TIME TOOL CLOSED FOR FORMATION PR				
IZE OF TUBING OR DRILL PIPE: 4/2" AF				
ESULTS OIL, FLOWING RATE			,	
WATER " "	×.			
MUD " "				
GAS: ESTIMATED 300,000				
GAS:		GAS OIL RATIO:		
OTTOM HOLE PRESSURES: BEGINNING OF TEST, TO	OL OPENEND	O OF TEST, TOOL OPEN	30 T SHUT-IN FORMATION	1200
RESSURE BALANCE (NOT APPLICABLE IF WELL FL	OWS ON TEST):	,		
BOMB PRESSURE, TOOL OPEN	CALCULATED FLUID COLUMN	PRESSURE OF IN DRILL STEM	DIFFERENCE	
IUD COLUMN PRESSURE ON BOMB 2200	CALCULATEDZ	086 MUD WEIG	HT	LBS./GAL
UMBER OF TIMES TOOL OPENED	DID PACKER HOLD?	<u> </u>	A CHOKE PLUGT	
DID FLUID DROP IN ANNULUST	IS TE	est conclusive?	<u> </u>	
REMARKS:	ERTINENT INFORMATION A	VALLABLE)		
(OMIT ONLESS OTHER TE		· · · · · · · · · · · · · · · · · · ·		
				,
•	9-10 BOTTOM HOLE	PRESSURE CARD	SCALE 1"	P.S.1
	500			
	/•••			
	1500	-		
PREPARED BY B. Y. Kakes traw	2000			
PREPARED BY DIT. KIR BLOWN HALL	260			
	3000			
		į	i i	

HOUR.

FORM 818 10-43

# STANOLIND OIL AND GAS COMPANY



	DRILL STEM TEST	REPORT		
LEASE: E. V. CRITTENDEN	WELI	L NO.:/	TEST NO	29
FIELD: BAR & FINTIGLINE				
**				
DATE AND TIME OF TEST: 7-18-48				
NAME OF SECTION TESTED: ANTRADA - A				
REASON FOR TEST: DETERMIN	E VALUE O	F POROSITY	/ IN SAL	STONE
COMPANY MAKING TEST: HALLIBURT	ON OIL WELL	- CEMENTIN	6 Co.	
TYPE PACKER AND WHERE SET: LALL				
				يهم سد ي رس
TOP OF SAND OR PAY:BA				
WATER CUSHION, IF USED: NONE FE	ET. LENGTH OF TIME	TOOL OPENED:	Elma,	
LENGTH OF TIME TOOL CLOSED FOR FORMATION I				
SIZE OF TUBING OR DRILL PIPE: 4/2" AP	CHOKE SIZE.	воттом:	, TOP:	· · · · · · · · · · · · · · · · · · ·
RESULTS OIL, FLOWING RATE		OR HEIGHT RECO	VERED NONE	FEET
•				
GAS: NONE		GAS OIL RATIO:		
OTHER RESULTS:				
SURFACE PRESSURES: NONE				
BOTTOM HOLE PRESSURES: BEGINNING OF TEST. T	001 OPEN 0 FND	OF TEST TOOL OPEN	O 84017 IN	FORMATION O
			SHUT-IN	-ORMATION
PRESSURE BALANCE (NOT APPLICABLE IF WELL F				
BOMB PRESSURE, TOOL OPEN				
MUD COLUMN PRESSURE ON BOMB 2100	CALCULATED 2	058# MUD W	/EIGHT <u>/</u> 6#	LBS./GAL.
NUMBER OF TIMES TOOL OPENED	DID PACKER HOLD?_	YES DID BO	TTOM CHOKE PLUG7_	No
DID FLUID DROP IN ANNULUST	IS TE	ST CONCLUSIVE?	Yes.	
REMARKS:				
(OMIT UNLESS OTHER F	PERTINENT INFORMATION AV	VAILABLE)		
***************************************			7010	
	O-TOI BOTTOM HOLE	PRESSURE CARD	SCALE 1"	P. <b>\$</b> .I.
	500			
	ham.			م
	1000			
	1500			
PREPARED BY Soft Kie ken trau	200			ممرکه
PREPARED BY 16. H. Kee Keen Graw				
	2500			
	3006		40 pm 10 10 10 10 10 10 10 10 10 10 10 10 10	
	3500			

< / HOUR -> < / HOUR ->

# STANOLIND OIL AND GAS COMPANY



ORM BIG 10-45	DRILL STEM TEST REPORT	LAKE CITY, UTAM
PASE: E. V. CAITTENDEN	WELL NO:	TEST NO
TIELD: BAR X ANTICLINE	county:GRAND	STATE: <i>UTAH</i>
DATE AND TIME OF TEST: 7-16-48	8:13 R.M.	· .
NAME OF SECTION TESTED: NRYAJO	(?)	то 3898
REASON FOR TEST: DETERMINI	E VALUE OF SANDSTONS	POROSITY
COMPANY MAKING TEST: HALLIBURT	TON OIL WELL CEMENTING	Co.
TYPE PACKER AND WHERE SET: WALL	TYPE @ 3839.	
TOP OF SAND OR PAY:E	BASE OF SAND OR PAY:T	OTAL DEPTH: 3878
,	FEET. LENGTH OF TIME TOOL OPENED: 45	
	PRESSURE: 15 MIN.	
	CHOKE SIZE, BOTTOM: 5/8	
	OR HEIGHT RECOVE	
	" " "	
_	• • · ·	
GAS: NONE	GAS OIL RATIO:	
OTHER RESULTS:		
SURFACE PRESSURES:		
BOTTOM HOLE PRESSURES: BEGINNING OF TEST.	TOOL OPENEND OF TEST, TOOL OPEN	SHUT-IN FORMATION O
PRESSURE BALANCE (NOT APPLICABLE IF WELL	FLOWS ON TEST):	
BOMB PRESSURE, TOOL OPEN	CALCULATED PRESSURE OF 5	DIFFERENCE
MUD COLUMN PRESSURE ON BOMB 2050	CALCULATED 2027 MUD WEI	GHTLBS./GAL
NUMBER OF TIMES TOOL OPENED	DID PACKER HOLD? YES DID BOTT	OM CHOKE PLUG? No
	IS TEST CONCLUSIVE? Y	
REMARKS:	R PERTINENT INFORMATION AVAILABLE)	
(OMIT UNLESS OTHER	R PERTINENT INFORMATION AVAILABLE)	
		, ,
	0-/00 BOTTOM HOLE PRESSURE CARD	SCALE 1" P.S.I.
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PREPARED BY Loke The	1500	
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# STANOLIND OIL AND GAS COMPANY

S. GEOLOGICAL SURVEY

OIL & GAS DIV.

JUL R O 1948

RESERVED

SALT LAKE CITY, UTAM

DRILL STEM TEST REPORT LEAST: E. V. CRITTENDEN WELL NO.: BAR X ANTICLINE COUNTY: GRAND STATE: UTAH 7-13-48 8:45 AM NAME OF SECTION TESTED: KIENTA(2) REASON FOR TEST: COMPANY MAKING TEST: HALLIBURTON OIL WELL CEMENTING CO. TYPE PACKER AND WHERE SET. WALL TYPE @ 3760' \_\_\_\_BASE OF SAND OR PAY:\_\_\_ WATER CUSHICE, IF USED: NONE FEET. LENGTH OF TIME TOOL OPENED: HOUR LENGTH OF TIME TOOL CLOSED FOR FORMATION PRESSURE: SIZE OF TUBING OR DRILL PIPE: 41/2" API CHOKE SIZE BOTTOM: OR HEIGHT RECOVERED\_\_\_\_ WATER 210' (RAT HOLE KILUD) MUD OTHER RESULTS: NONE TOM HOLE PRESSURES: BEGINNING OF TEST, TOOL OPEN 0 END OF TEST, TOOL OPEN 200 SHUT-IN FORMATION 1025 CALCULATED PRESSURE OF FLUID COLUMN IN DRILL STEM\_\_\_\_ 1981 IS TEST CONCLUSIVE? YES (OMIT UNLESS OTHER PERTINENT INFORMATION AVAILABLE) SCALE 1" P.S.I. BOTTOM HOLE PRESSURE CARD 500 1000 6 % Kakes haw

- 1 HOUR

6

Form 9-330

<sup>⊲g</sup>€

get Bureau No. 42-R355. proval expires 11-30-46.

> U. S. LAND OFFICE Sult Labe City Serial Number 064806

LEASE OR PERMIT TO PROFESS.

UNITED STATES

DIL & GAS DIV.

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

L SURVEY

### LOG OF OIL OR GAS WELL

ssor or Teact T. 7. Crittenden sil No. 1 Sec. 12 T. 17R. 25Meridi cation 150 5M of S Line and 666t W. o	Field B	er-X-Anticl	ine State Uta	h
ration 1 Sec. 12 T. 17R. 25Meridi	ian		_	
cation 665ft No ACC 2 Line and 666t W		10.3#/Gel	nty Grend	
(11.1)	forton of& Line	of See. 1	Elevatio	or relative to sea level)
The information given herewith is a complete an far as can be determined from all available records	id correct is	ecord of the we	ell and all work do	one thereon
te January 21, 1949		Title	Field Superint	endent
The summary on this page is for the condition of	f the well at	above date.	- man - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- . ∴_fining
mmenced drilling June 8,		HOLDED FULL	o The Frontier August 3.	, 19
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o. 2, from (g). 2965. to2996	No. 5, ft	rom (G)	to	<b>125</b>
), 3, from (c) 2996 to 3608	No. 6, f	rom	_ to	
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FORMATION RECORD—Continued

Dali Lake City V

Form 9-331 a (March 1942) Budget Bureau No. 42-R358.1. Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. 064806

UNITED STATES

August 8.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AUG 101948

10 4

SUNDRY NOTICES AND REPORTS ON WELLS

	- T. I.	
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	CURCEOUTAGE DEPOSIT OF THE CONTROL O	-
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MOTION OF INTERPRETATION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING WOLLD GAR	hour Ci
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	714.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ALTERING CASING OIL & GAS- SUBSEQUENT REPORT OF REDRILLING OR REPAIR. SUBSEQUENT REPORT OF ABANDONMENT	A/IR
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY	730
TO THE OF THE PROPERTY OF ABANDON WELL.		1.5 //
" " Plng back, run one		-714
	4 Test.	- June

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

			, 19 <b>46</b>
Well No. 1	is located 660 ft. from	S line and 660 ft. f	from E line of sec. 12
SEASEA-12 (M. Sec. and Sec. No.)	17.8 25 (Twp.) (R	R S L M ange) (Meridian)	4004
Ban-X	Grand		Ptah
(Field)	(County or St		(State or Territory)
TT 1			

The elevation of the derrick floor above sea level is .... ft. Not determined

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, comenting points, and all other important proposed work)

- 1. Set cement plug 4005' to 4050'.
- 2. Set cement plug 3850 to 3900.
- 3. Run 3850 7" J-55 23# new seamless casing. Coment same from approximately 3850 to 2600.
- 4. Perforate 3716 and squeeze cement to make sure of H20 shut-off.
- 5. Perforate and test some 3550 to 3600 to

I understand that this plan of work must receive approval in writing by the	Approved AUG 1 1 1148  Approved Ferguson  Goldon Picture From
Company THE FRONTIER REFINING COMPANY	description and the commenced.
Address 410 BOSTON BUILDING	
DENVIER, COLURADO	By t. O. Voreale
	Title Geologist

Form 9-331a (March 1942) (SUBMIT IN TRIPLICATE)

# UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

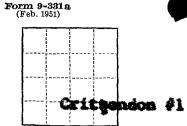
Land Office Salt Lake City

Lease No. 064806

Unit - -

34 & 840 DIV.

F INTENTION TO DRILL	OUDCEONENT E	REPORT OF WATER SHUT-OFF	
· · · · · · · · · · · · · · · · · · ·	·	REPORT OF SHOOTING OR ACIDIZING	
TO CHANGE PLANS	AUDICIOUENT N	PEPORT OF ALTERING CASING	
- WITCHTION TO TEST WATER SHUT-UFF		REPORT OF REDRILLING OR REPAIR	
F INTENTION TO RE-DRILL OR REPAIR WELL.	- TOPOUTNIT I	PEPORT OF ABANDONMENT	
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OF INTENTION TO ABANDON WELL			
(INDICATE ABOVE BY CHECK MA	OF REPORT	, NOTICE, OR OTHER DATA)	
(INDICATE ABOVE BY CHECK MA			
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r Grai		(State or Territor)	<b>y</b> )
evation of the derrick floor above se	ounty or Subdivision)		
DE arms of and expected depths to objective sands; she ing points, and set 10 sk plug 4015 - 4040	a an outerp	11. Perforated 355 w/6 shots/ft	is to 361 (5/8° bel
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Notice

#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		]
NOTICE OF INTENTION TO CHANGE PLANSNOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL NOTICE OF INTENTION TO SHOOT OR ACIDIZE		
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
of Intention to Rework Well	X	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well No. 1 is located 660 ft. from S line and 660 ft. from E line of sec. 12
well ivo is located rt. from S line and ft. from line of sec
SE 1/4 of Sec. 12 175 25E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Bar "X" Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5259 ft.

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The well is presently producing from the Entrada through perforation 3550-3610. It is proposed to kill the well and pull tubing. A cast iron plug will be set at approximately 3350 and the Salt Wash section of the Morrison will be perforated from 3224-3240 and from 3248-3272 and a production type DST run. A plug will then be set at approximately 3120 and the casing perforated from 3016-3036 and from 2960-2990 and a production type DST run. A plug will then be set at approximately 2920 and the Dakota will be perforated from 2816-2846 and a production type DST will be run. If commercial quantities of gas are indicated by this production type DST, the Dekota sand will be fraced and the well completed as a Dakota gas well.

I understand that this plan of work must receive approval in writin	ng by the Geological Survey before operations may be commenced.
Company The American Metal Company	y, Limited Wart
Address 1845 Sherman Street	1955
Denver 3, Colorado	By M. J. anter, 2.
A STONE	Engirelle Supervising Petroleum Engine
U. S. GOVERNMENT PRANT	15/17/07 17NG OFFICE 16-8437-5

# THE AMERICAN METAL COMPANY, LIMITED 61 BROADWAY NEW YORK 6, N.Y.

TELEPHONE BOWLING GREEN 9-1800 CABLE ADDRESS: EFFLUX, NEW YORK

PLEASE ADDRESS REPLY TO

A. J. Carter, Jr. - 1845 Sherman St. - Denver 3

SUBJECT:

Crittenden #1

March 2, 1956

Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is an approved copy of Form 9-331a,

"Notice of Intention to Rework Well" on the

Crittenden #1 well in Grand County, Utah.

Yours very truly,

A. (J. Carter, Jr.

Supervising Petroleum Engineer

AJC, Jr./eh Encl.

#### (SUBMIT IN TRIPLICATE)

### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau 42-R358.3. Approval expires 12-31-55.

Salt Lake City

SLC #064806

## SUNDRY NOTICES AND REPORTS ON

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

		And the second of the second o	March 30	, 19_ <b>56</b>
Well Nois located	<b>့်</b> မော် ft	S. from $S$ line an	ad <b>660</b> ft. from $\begin{bmatrix} E \\ \bullet \end{bmatrix}$ line of se	c. 12
SE/4 SE/4 Sec. 12 (% Sec. and Sec. No.)	T17S	8258 (Range)	(Meridian)	
(Field)		County or Subdivision)	(State or Territory)	·

The elevation of the derrick floor above sea level is ... 5260 ft.

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

2/24/56 Moving rig from Bar "X" #5 to Crittenden No. 1

Moving and rigging up rotery tools. 2/25/56

2/26/56 Finished rigging up. Measurement from casing head flange to rotary table was 11.65' and measurement from tubing head flange to rotary table was 9.75'. All measurements zeroed at rotary table. Elevation of rotary table was 5260'. Blew well down and killed Entrada sand with rotary mud. 2-7/8" O.D., E.U.S., 6.5#, 8 rd. thd., sal. st. tubing. perforated intervals as per Gamma Ray-Neutron log measurements.

inser

		(continued	on	attached	sheets)
I understa	and that this plan of work must receive approval in	n writing by the Geological Survey bel مو	fore op	erations may be co	mmenced.
Company	The American Meta	1 Company, Limites	1	<i>z</i>	
Address	Room 412			1111	
	1845 Sherman St.	By	<u>(                                    </u>	) aver	2/2-
	Denver 3, Colorado	Title Supers	id	ing Petro	leum Eng

- 2/27/56 Ram McGullough Gamma Ray-Neutron log with collar locator.

  Set Baker C.I. bridging plug at 3350'. Placed 5 sx. cement on top of plug. New P.B.T.D. = 3325'. Perforated the Salt Wash member of the Morrison formation from 3224' to 3240' and from 3248-3272', with McCullough super casing jet, four holes per foot. Ram production DST #1 from 3215' to 3325'. Tool open 18 hrs., S.I. 1 hour. Gas to surface in 2 min. Mud to surface in 19 min. Gas gauged 663 MCF open flow at end of test. IMP = 1530 psig; IFP = 155 psig; FFF = 155 psig; SIEMP = 950 psig maximum; FMP = 1530 psig.
- 2/28/56 Pulled production DST #1. Set a Baker DM plug at 3120'.
  Perforated Upper Norrison sand from 2960-2990' and from
  3016 to 3036' with McCullough super casing jets, four to the
  foot.
- 2/29/56 Ram prod. DST #2 from 2943 to 3120'. Tool open 11 hrs., S.I.

  30 min. Gas and mud to surface in 3 min. Gas gauged 3100 MCF
  open flow at end of test. IHP = 1385 psig; IFP = 545 psig;
  FFP = 505 psig; SIBHP = 835 psig maximum; FHP = 1385 psig.

  Tested for communications and/or lack of a cement job over the
  Dakots sand by parforating from 2756-2757 with four McCullough
  super casing jets. Ram 2-7/8" 0.D. tubing with Halliburton
  HM tool set at 2928' and pressured tubing with mud. Circulated
  mud between 2-7/8" 0.D. tubing and 7" casing with 900 psig which
  proved either a channel and/ar no cement between perferations
  at 2960 to 3036', and perforations at 2756 to 2757'.
- 3/1/56 Ran Halliburton EM squeeze packer set at 2954' and established circulation between perforations at 2960 to 3036' and perforations at 2756 to 2757' with 600 psig.

  Started to cement and had approximately 35 sx. cement mixed when perforations at 2756 to 2757' plugged and squeezed 65 sx. additional cement into the formation at 2800 psig. Used a total of 100 sx. cement. WOC.
- 3/2/56 WOC. Pressured 7" O.D. casing to 1100 psig, and perforations 2756 to 2757' held OK. Perforated Dakota send from 2816 to 2846' with four McCullough M3 burrless bullets per foot. Ran prod. DST #3 from 2801 to 2954'. Tool open 4-1/2 hrs., S.I. 4 hrs. Gas to surface in 8 min. Gas gauged 121 MCF open flow at end of test. Rec. 315' of gas-cut mid in the 2-7/8" O.D. tubing. IHP = 1295 psig; IFP = 30 psig; FFP = 145 psig; SIBHP = 975 psig, maximum; FHP = 1295 psig. Obtained permission from the U.S.G.S. to dually complete well in the Morrison and Dakota formations. Therefore, it was necessary to drill the Halliburton DM type packer, squeeze job and Baker DM type bridging plug. Started drilling on Halliburton DM type packer at 2954'.
- 3/3/56 Brilling squeeze job and Baker DM type bridging plug. Conditioning mud.
- 3/4/56 Re-perforated Upper Morrison sand from 2960 to 2990' and from 3016 to 3036' with four McCullough M3 burrless bullets per foot.

3/4/56 (continued)

Ran 2-7/8" O.D. tubing with straddle packers. Bottom packer set at 3047' and top packer set at 2934'. Acidized with 1000 gals. MCA. Formation broke from 2500 psig to 1600 psig with an injection rate of 1 bpm. Flushed with 17.5 bbls. of Cisco crude. Swabbed well and started testing Upper Morrison sand. Upper Morrison sand gauged 3,000 MCF open flow at end of test. Unseated packers and straddled Bakota sand with bottom packer at 2861' and top packer at 2748'. Acidized Dakota sand perforations from 2816 to 2846' with 750 gals. MCA. Formation broke from 2000 psig to 1200 psig with an injection rate of 1.5 bmm. Flushed with 16.9 bbls. of Cisco crude.

3/5/56 Swabbed Dakota sand and tested after MCA job. Well gauged 170 MCF gas/day open flow from the Dakota sand. Unseated

straddle packers and killed well.

Dressed straddle packers and went in hole to frac Salt Wash 3/6/56 member of the Morrison formation. Bottom packer set at 3292' and top packer set at 3179' straddling perforations from 3224 to 3240' and 3248 to 3272'. Broke formation down with 15 bbls. of Cisco crude and pumped into Salt Wash at 2900 psig. Established circulation between the 7" O.B. casing and the 2-7/8" O.D. tubing. Unseated packers and reset in blank casing between the Salt Wash and Upper Morrison sand. Bottom packer at 3169' and top packer at 3057'. Pressured tubing to 3250 psig and pressure held, indicating that packers and tubing not leaking. Unseated packers and straddled Upper Morrison sand perforations from 2960 to 2990' and from 3016 to 3036'. Bottom packer at 3047' and top packer at 2935'. Broke down formation with 10 bbls. Cisco crude at 2400 psig. No circulation established between 7" O.D. casing and 2-7/8" O.D. tubing. Therefore, a channel existed between the Salt Wash perforations and the Upper Morrison sand perforations. At this point, the writer decided to frac the Salt Wash and the Upper Morrison sands, through straddle packers, straddling the Upper Morrison sand perforations from 2960 to 2990' and from 3016 to 3036'. Therefore, hydrafraced the Morrison formation as mentioned above with 10,000 gals. gel plus 9100# sand through perforations from 2960 to 2990' and from 3016 to 3036'. Formation took frac at 2850 paig and broke to 2700 psig with an injection rate of 6.5 bpm. Overflushed with 10 bbls. of Cisco crude.

3/7/56 Re-hydrafraced the Morrison formation with 10,000 gals. gel plus 14,600# sand through perforations from 2960 to 2990' and from 3016 to 3036'. Formation took frac at 2850 paig with an injection rate of 6.3 bpm. Overflushed with 40 bbls. Cisco crude.

Equalized pressures, unseated packers, and reset straddle packers with bottom packer at 2886' and top packer at 2773' straddling Dakots sand perforations from 2816 to 2846'.

3/7/56 (continued)
Broke down Dakota sand with 10 bbls. of Gisco crude at 2600 psig. No circulation established between 7" O.D. casing and 2-7/8" O.D. tubing. Hydrafraced with 7500 gals. gel plus 10,800# sand. Formation took frac at 2700 psig with an injection rate of 6 bpm. Overflushed with 30 bbls. of Cisco crude.

3/8/56 Equalized pressures and conditioned mud. Pulled straddle packers. Ran a Halliburton Type "C" production packer with Otis Type "FA" tubing nipple on top of stinger. Top of Type "C" packer at 2860'. Flanged-up head and kicked well off flowing to the pits.

3/9/56 Flowing all zones to the pit. Set Otis side door choke in Otis Type "FA" tubing nipple. Flowing Dakota and Morrison separately to the pits. Otis choke and Type "C" production packer holding OK.

3/10/56 Morrison formation gauged an estimated 7500 MCF gas/day open flow and Dakota formation gauged an estimated 4500 MCF gas/day open flow. The 3" master tubing valve was leaking so set Otis blanking choke in the 2-7/8" O.D. tubing and replaced with a new one. Buttoned-up Christmas tree. Rig released at 12:00 noon.

# THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING
1845 SHERMAN STREET
DENVER 3, COLORADO
TELEPHONE CHERRY 4-4423

April 9, 1956

MAIN OFFICE 61 BROADWAY NEW YORK 6, N. Y.

Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

I am enclosing an approved copy of Form 9-331a, "Notice of Intention to Re-Drill or Repair Well" on the Crittenden No. 1 well in Grand County, Utah.

Yours very truly,

A. J. Carter, Jr.

Supervising Petroleum Engineer

AJC, Jr./eh Encl.

TERRA RESOURCES, INC.

Division of Oil and Gas Conservation 1588 West North Temple Salt Lake City, Utah 84116

> Re: Initial Report Terra Resources, Inc.

Diffective March 1, 1970, a reorganization of CRA, Inc., a Kansas importation, occurred. Effective that date the Production and Exploration Divisions of CRA, Inc. were incorporated with the name Terra Resources, Inc. in the State of Delaware.

Attached hereto is Terra Resources, Inc.'s initial report. It covers operation of the leases indicated for the period beginning Earch 1, 1970.

Please address all future correspondence related to these leases as follows:

Terra Resources. Inc.
Taxation Department
Fourth National Bank Building
Tulsa, Oklahoma 74119

Very truly yours,

I. E. Krause, Controlle

lEK:dm Attachment

FOURTH NAT'L BANK BLDG / TUESA OKLAHOMA 74119 / PHONE 918-587-5021

APR 01

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	Loc	RUN	DAY	MO/YR	STARTING TIME
93772016	BAR X #16	06	02	18	12/85	0800
92002012	BAR X #4 175. 24 E. 18	06	12	1	11/85	T.D.
92003019	BAR X #6 CS 17 S. 25 E. 11	06	12	13	11/85	1100
9200-5011	CRITTENDON #1 CASING 175.25 12	06	12	13	11/85	1000
92005018	CRITTENDON #1 TUBING //	06	12	13	11/85	0900
92013014	BAR X #5 175. 246. 17	06	12	_le	11/85	1000
92292010	BAR X #12 175. 246.17	05	12	6	11/85	1100
92293017	BAR X #13 175. 246.7	0ó	12	13	11/85	0800
93549015	BAR X #9	05	12	le	11/85	6900
9210-2612	BAR X #5 175. 25 E. 11	06	12	3	12/85	6900

COMPANY: Jerra Resources UT ACCOUNT # N0960 SUSPENSE DATE: 1-29-88
well name: Crittenden #1
TELEPHONE CONTACT DOCUMENTATION  API #: 43019 15027
CONTACT NAME: Linda Moure  SEC, TWP, RNG: 175 252 12
CONTACT TELEPHONE NO.: 1-307-237-8461
SUBJECT: Well was in computer commingled as DK-MR. Should
lave been dually completed as DKTA & MRSN. We have
the separate amounts through may 1984. Then the
figures were added together.
(Use attachments if necessary)
RESULTS: I asked Linda for the separate amounts. She will
send the purchase orders (copies) and a tild his we
would do all the work. She said this would take
awhile and I told her we would not rush her on
this.
(Use attachments if necessary)
CONTACTED BY: 10
DATE: 12-8-87

#### LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394 408 PETROLEUM BUILDING BILLINGS, MONTANA 59103-3394 (406) 245-5077

March 8, 1989



DIVISION OF OIL, GAS & MINING

DIVISION OF OIL, GAS & MINING STATE OF UTAH 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, UT 84180

Re: Bar-X Unit

GRAND COUNTY, UTAH and MESA COUNTY, COLORADO

#### Gentlemen:

Following is a list of wells and well locations which make up the Utah portion of the Bar-X Unit. Change of operator for this unit was effective January 1, 1989.

0/9-15027Crittenden	No. 1	SE SE Section 12:	T17S-R25E, Grand Co., UT
019-15022 Bar-X Unit	No. 3	NE SW Section 12:	T17S-R25E, Grand Co., UT
019 -150 23 Bar-X Unit	No. 4	NE NE Section 18:	T17S-R26E, Grand Co., UT
#9-15024 Bar-X Unit	No. 5	SE NE Section 17:	T17S-R26E, Grand Co., UT
0/9-15025 Bar-X Unit	No. 6	SE NE Section 11:	T17S-R25E, Grand Co., UT
019 - 15 024 Bar-X Unit	No. 7	NW NE Section 7:	T17S-R26E, Grand Co., UT
019-3049# Bar-X Unit	NO. 8	NE NW Section 11:	T17S-R25E, Grand Co., UT
019 - 30597 Bar-X Unit	No. 12	NW SE Section 8:	T17S-R26E, Grand Co., UT
の1ター 305年8 Bar-X Unit	No. 13	NW SW Section 7:	T17S-R26E, Grand Co., UT

Should you require any further information, please feel free to call.

Very truly yours,

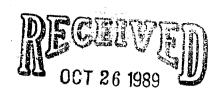
Lone Mountain Production Company

Hyma Lella,

Lynda Wilson

#### LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394 408 PETROLEUM BUILDING BILLINGS, MONTANA 59103-3394 (406) 245-5077



October 24, 1989

DIVISION OF OIL, GAS & MINING

Division of Oil, Gas & Mining State of Utah 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180

#### Gentlemen:

Enclosed are Sundry Notices to commingle the Dakota and Morrison production on the Bar-X Unit Wells No. 6 and Crittenden No. 1.

Commingling will result in improved operating conditions and less waste of gas necessitated by blowing the wells to remove accumulated fluids from the wellbore.

Your expedient approval of these notices will be appreciated. We hope to get a rig and perform the work in mid-November.

If you have any question, please feel free to give me a call.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY

James G. Routson

JGR:tlm

Enclosures

Ferm 31	160	-5	
(Novem	ber	198	3)
(Former	ly i	9-3.	31

SUBMIT IN TRI

r orm a	pprovea.	
Budget	Bureau No.	1004-0139
Expires	s August 31,	1985
		-1

<b>5</b> .	I.EASE	DESIGN		BERIAL	N

BUREAU OF LAND MANAGEMENT	SLC 064806
SUNDRY NOTICES AND REPORT OF LIGHT TO BE THE PROPERTY OF THE P	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL C) 548 CO	7. UNIT AGRECMENT NAME
WELL I. I WELL IXI OTHER	Bar-X
2. NAME OF OPERATOR DIVISION OF	8. FARM OR LEASE NAME
Lone Mountain Production Company OH GAS & MINING	Federal
3. ADDRESS OF OPERATOR	9. WHEE, NO.
408 Petroleum Building, P.O. Box 3394, Billings, MT 59103  1. IOCATION OF WELL (Report location clearly and in accordance with any State requirements.*  Sec. also, aprice 17 below.)	Crittenden No. 1
660' FSL, 660' FEL	Bar-X 11. SEC., T., E., M., OR BLK. AND BUNNEY OR AREA
	SE4SE4 Sec. 12-T17S-R25
14. PERMIT NO. 15. BLEVATIONS (Show whether DY, BT, GR, etc.)	12. COUNTY ON PARISH 13. STATE
40-019-10007 5259 DF	Grand III ah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:			នបននេះប្រ	ENT EMPORT OF;			
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TEST WATER SHUT OFF		PULL OR ALTER CASING		Ì	WATER SHUT-OFF	BEPAIRING WELL	1
PRACTURE TREAT	ļ	MCLTIPLE COMPLETE		}	FRACTUBE TREATMENT	ALTERING CASING	1
BHOOT OB ACIDIZE		ABANDÓN*		ļ	SHOOTING OR ACIDIZING	ABANDONMENT+	1
REPAIR WELL		CHANGE PLANS		l	(Other)		1
(Other) Comming 1	e P	roduction	X.	<u> </u>	' Completion or Recomble	of multiple completion on Well	.ī
orsenius raorosep og co w 11. work, 16 w	scaune proposed on coverested openations (Clearly state all pertinent details, and give pertinent dates, including estimated data of starting proposed work. If well is directionally drilled, give subsurface locations and monuted and true careful data of starting						

nent to this work.) .

This well has been producing dual completed from the Morrison and Dakota since 1956. Both zones have been produced into the same pipeline and should have similar pressures. Lone Mountain is installing a lower pressure line and hereby requests approval to commingle the Dakota and Morrison. Commingling will allow higher gas velocities up the tubing for lifting fluids, thereby eliminating the need to "blow" the well as often. Commingling orders are currently in effect on lands adjacant to the Bar-X Unit, as well as other Bar-X Unit wells.

OIL AND GAS

		DHN	HUF	
		JRB	GLH	
		DTS	SLS	
,		0-745		
		3- MICH	OFILM	I
8. I hereby certify that the foreming by true and correct	y y jamon diamony dia 11 distribusione i diam'i 90. diplomit distribus alam sistem di Sandyda diamony di	II.	ILE	
BIGNED AMO - Chilanda	TITLE _Petroleum Engineer	<u> </u>	DATE _Octo	ber 24, 198
(This space for Federal or State office use)				

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing

operations.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF OIL, GAS, AND MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Ferm 3160-5 (November 1983) (Formerly 9-331)	UN STA	E INTERIO	8UBMIT IN TRIL (Other lostractions of	5. 1.1	Form approved. Budget Bureau Expires August ABE DESIGNATION C 064806	No. 1004-0135 31, 1985
SUNDR (Do not use this form Us	Y NOTICES AND RE for proposals to drill or to de martin for permit	PORIS (	PLE TO a different fearcrain		INDIAN, ALLOTTE	E OR TRIPE NAME
OIL GAR (X)	OTHER	93	OCT 26 1989 C		HT AGREEMENT NO	NE.
2. NAME OF OPERATOR	The state of the s		DIVISION OF	8. FA	RM OR LEASE NAS	i <b>E</b>
Lone Mountain Pro	duction Company		IL. GAS & MINING		deral	
408 Petroleum Bui 4. 10 CATION OF WELL (Report See also opice 17 below) At surface	lding, P.O. Box 339 the file action clearly and in accordance	4, Billing	gs, MT 59103	Cr	ittenden N	O. 1
660' FSL, 660' F	EL			1 7 1 7 1 7 1	IFTX  EC., T., E., M., OR B  BURNEY OR AREA	LK. 4HD
14. PERMIT NO.	35. BIEVATIONS (Sh	ow whether pr. i	IT, GR, etc.)	SE	1SE1 Sec.	12-T17S-R25E
	5250 DF			1 _		
16.					and	<u>Utah</u>
`	Check Appropriate Box To	marcars 140	ture of Idolice, Report,	or Other I	)al <b>a</b>	
NOTIC	E OF INTENTION TO:	. 1	期 13	BREQUENT RE	PORT OF:	
TEST WATER BRUT OFF	PULL OR ALTER CASING	• []	WATER SHUT-OFF FRACTURE TREATMENT		REPAIRING W	· · · · · · · · · · · · · · · · · · ·

This well has been producing dual completed from the Morrison and Dakota since 1956. Both zones have been produced into the same pipeline and should have similar pressures. Lone Mountain is installing a lower pressure line and hereby requests approval to commingle the Dakota and Morrison. Commingling will allow higher gas velocities up the tubing for lifting fluids, thereby eliminating the need to "blow" the well as often. Commingling orders are currently in effect on lands adjacant to the Bar-X Unit, as well as other Bar-X Unit wells.

SHOOTING OR ACIDIZING

X. (Note: Report results of multiple completion on Well Completion or Recompletion Report and fog form) all pertinent details, and give pertinent dates, including estimated date of starting any surface locations and measured and true vertical depths for all markers and gones perti-

COPY

BHOOT OB ACIDIZA

(Other) Commingle Production

DIVISION OF OIL GAS & MINING

BIGNED _ dames G. Routson (This space for Pederal or State office nac)	rest Petrol	eum Engineer	DATE _October_24, 1989
(This space for Federal or State office use)		nar managan ang katapat ( tang pang pang pang pang pang pang pang p	and the first state of the second sec
APPROVED BY			TEO BY THE STATE
required before commencing	#C 1	OIL. C	TAH DIVISION OF SAS, AND MINING
operations.	*Sze Inshuctions on R	(everse Side DATE:	11-1-89
Title 18 U.S.C. Section 1001, makes it a crime United States any false, ficultious or fraudulen	for any person knowingly Listutements or represent	y and willfully to make to any ations as to any matter within	department or agoncy of the

03/05/92 \* \* \* basic well information \* \* \* menu: option 00 api number: 4301915027 producing zone: DK-MR producing entity: 455 BAR X UNIT/DK-MR B well name: CRITTENDEN #1 operator: N7210 LONE MTN PRODUCTION CO field: 160 BAR X section: 12 township: 17.0 range: S 25.0 E qtr-qtr: SESE meridian: cumulative oil prod: cumulative gas prod: cumulative wtr prod: alternative address code: enter 'c' if production is confidential: enter date confidential expires (yyddmm): enter 'x' to delete record: opt: 47 api: 4301915027 zone: DK-MR date(yymm): enty: acct: 03/05/92 \* \* \* basic well information \* \* \* menu: option 00 4301915027 prod zone: DK-MR sec api num: range twnshp qr-qr 455 ( BAR X UNIT/DK-MR B entity: 12 17.0 S 25.0 E well name: CRITTENDEN #1 N7210 ( LONE MTN PRODUCTION CO operator: meridian: S field: 160 ( BAR X confidential flag: confidential expires: alt addr flag: \* \* \* application to drill, deepen, or plug back \* \* \* lease number: SL-064806 lease type: 1 well type: GW 0660 FSL 0660 FEL unit name: surface loc: prod zone loc: 0660 FSL 0660 FEL depth: 4250 proposed zone: 5210' elevation: apd date: 480512 auth code: \* \* \* completion report information \* \* \* date recd: 480608 spud date: compl date: 891209 total depth: 4497' producing intervals: 2810-3716' bottom hole: 0660 FSL 0660 FEL first prod: well status: PGW 24hr oil: 24hr gas: 24hr water: gas/oil ratio: \* \* \* well comments \* \* \* api gravity: 920305 TA'D BOTH DKTA & MRSN PZ:COMMINGLED EFF 12/9/89:

opt: 48 api: 4301915027 zone: DK-MR date(yymm): enty:

acct:

03/05/92 DETAIL WELL DATA menu: opt 00 api num: 4301915027 prod zone: DKTA sec twnshp range gr-gr entity: 455 : BAR X UNIT/DK-MR B 12 17.0 S 25.0 E SESE

GW

well name: CRITTENDEN #1

N7210 : LONE MTN PRODUCTION CO operator: meridian: S

field: 160 : BAR X

confidential flag: confidential expires: alt addr flag:

\* \* \* application to drill, deepen, or plug back \* \* \* SL-064806 lease number:

lease type: 1 well type:

surface loc: 0660 FSL 0660 FEL unit name:

prod zone loc: 0660 FSL 0660 FEL depth: 4250 proposed zone:

elevation: 5210' apd date: 480512 auth code: \* \* \* completion report information \* \* \* date recd:

spud date: 480608 compl date: 480823 total depth: 4497'

producing intervals: 2810-3215'

bottom hole: 0660 FSL 0660 FEL first prod: well status: TA 24hr oil: 24hr gas: 24hr water: gas/oil ratio:

\* \* well comments: api gravity:

871116 DKTA PZ ADDED, SHLD HAVE BEEN DUAL COMPL NOT COMMINGLED AS DK-MR SEE ALSO MRSN PZ:880926 1987 CUM BASE ADJUSTED:890315 CHG OF OPER FR N0960

1/1/89:920305 COMMINGLED AS DK-MR EFF 12/9/89 SEE ALSO:

opt: 21 api: 4301915027 zone: DK-MR date(yymm): enty acct:

03/05/92 DETAIL WELL DATA menu: opt 00 api num: 4301915027 prod zone: MRSN sec twnshp range ar-ar entity: 455 : BAR X UNIT/DK-MR B 12 17.0 S 25.0 E SESE

well name: CRITTENDEN #1

N7210 : LONE MTN PRODUCTION CO operator: meridian: S

: BAR X

confidential flag: confidential expires: alt addr flag:

\* \* \* application to drill, deepen, or plug back \* \* \*

lease number: SL-064806 lease type: 1 well type: GW

surface loc: 0660 FSL 0660 FEL unit name:

prod zone loc: 0660 FSL 0660 FEL depth: 4250 proposed zone: elevation: 5210' apd date: 480512 auth code:

\* \* \* completion report information \* \* \* date recd:

spud date: 480608 compl date: 480823 total depth: 4497'

producing intervals: 3533-3716'

bottom hole: 0660 FSL 0660 FEL first prod: well status: TA 24hr oil: 24hr gas: 24hr water: gas/oil ratio: \* \* well comments:

api gravity: RELEASED TO THE FRONTIER REFINING CO.:871116 WELL SHD HAVE BEEN DUAL COMPL-NOT COMMINGLED-SEPARATED PZ'S AND REQSTED CUM SEARCH:880926 CUM BASE ADJUSTED 890315 CHG OF OPER 1/1/89:920305 COMMINGLED DK-MR EFF 12/9/89 SEE ALSO:

opt: 21 api: 4301915027 zone: DK-MR date(yymm): enty

#### LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394 408 PETROLEUM BUILDING BILLINGS, MONTANA 59103-3394 (406) 245-5077 FAX 248-6321

February 14, 1992

STATE OF UTAH DEPT. OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING 355 West North Temple 3 Triad Center Suite 350 Salt Lake City, Utah 84180-1203

Re:

Bar-X #1 Crittenden

SE SE Section 12: T17S-R25E

Bar-X #6

SE NE Section 11: T17S-R25E

Gentlemen:

Enclosed please find three copies of our SUNDRY NOTICE - Subsequent Report of Commingling for the captioned wells, both located in Grand County, Utah.

We are also attaching for your records a copy of the SUNDRY NOTICE - Notice of Intent to Commingle for both of these wells.

Should any further information be needed, please advise.

Yours very truly,

Lone Mountain Production Company

James G. Routson

JGR/lw

**Enclosures** 

FEB 1 8 1992

DIVISION OF OIL GAS & MINING Form OGC-1b

APPROVED BY \_\_\_\_\_\_\_ COMMITTEE OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE: (Other instructions on

Other)  17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent of proposed work. If well is directionally drilled, give subsurface locations and measured and true vinent to this work.)  On December 9, 1989, this well was commingled (the Dakota and A Sundry Notice of Intent to commingle was filed with the Stockholm of the State of October 24, 1989 and was approved & accepted by the State of attached).	nd Morrison formations). tate of Utah on
(Other) (Nors: Report re	esuits of multiple completion on Well completion Report and Log form.)
TRET WATER SHUT-OFF PRACTURE TREAT SHOOT OR ACIDIZE PULL OR ALTER CASING WATER SHUT-OFF PRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	
16. Check Appropriate Box To Indicate Nature of Notice, Report,	or Other Data
14. PERMIT NO.  15. BLEVATIONS (Show whether DF, RT, QR, etc.)  43-019-15927  5259 DF	SE SE Sec. 12: T17S-R25I
660' FSL, 660' FEL	Bar-X 11. ssc., T., S., M., OR BLE. AND SUBVET OR AREA
408 Petroleum Bldg., P. O. Box 3394, Billings, Montana 59103 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. PIELD AND POOL, OR WILDCAT
OIL WELL X OTHER  I. HAMB OF OPERATOR  LONE MOUNTAIN PRODUCTION COMPANY	Bar-X 8. FARM OR LBASE NAME Federal
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)	7. UNIT AGREEMENT HAMB
	5. LEASE DESIGNATION AND SERIAL NO.  SLC 064806 6. IF INDIAN, ALLOTTER OR TRIBE NAME